

ELECTROLYSIS-UTILITY INTEGRATION WORKSHOP

*Renaissance Suites at Flatirons, Broomfield, CO
September 22-23, 2004*

Agenda

September 22, 2004

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|----------|---|
| 7:30 am | Registration and Continental Breakfast |
| 8:30 am | Welcome and Overview of Workshop Goals, <i>Pete Devlin, DOE/OHFCIT</i> |
| 8:45 am | Review Agenda and Objectives, <i>Shawna McQueen, Energetics</i> |
| 9:00 am | Electrolysis Hydrogen Generation, <i>Steve Cohen, Teledyne Energy Systems</i> |
| 9:20 am | Electrolyzers Operating in Real-World Conditions, <i>Rob Regan, DTE Energy Systems</i> |
| 9:40 am | Break |
| 10:00 am | Technology Advancements and New Concepts, <i>Dan Smith, GE Global Research</i> |
| 10:20 am | DG and Renewable Energy in the Electric Cooperative Sector, <i>Ed Torerro, National Rural Electric Cooperative Association</i> |
| 10:40 am | Electrolytic Hydrogen from a Blend of Nuclear- and Wind-Produced Electricity, <i>Alistair Miller, Atomic Energy of Canada</i> |
| 11:00 am | Wind in the Electricity Infrastructure, <i>Mark McGree, Xcel Energy</i> |
| 11:20 am | Hydrogen at the Fueling Station, <i>Steven Schlasner, Conoco Phillips</i> |
| 11:40 am | Discussion/Questions & Answers |
| 12:00 pm | Lunch with Luncheon Speaker: Electricity Pricing and Regulatory Impacts, <i>Gary Nakarado, Federal Energy Regulatory Commission</i> |
| 1:00 pm | Electrolysis Technology Development and Fueling Infrastructure Options, <i>Matthew Kauffman US Department of Energy</i> |
| 1:40 pm | Near-Term Hydrogen and Electricity Infrastructure Integration, <i>Abbas Akhil, Sandia National Laboratory</i> |
| 2:20 pm | Grid-Based Renewable Electricity and Hydrogen Integration, <i>Carolyn Elam National Renewable Energy Laboratory</i> |
| 3:00 pm | Break, move to Breakout Sessions |
| 3:30 pm | Breakout Sessions (two breakout groups will address the same topics in parallel) <ul style="list-style-type: none">• Electrolysis Vision Impacts on and Opportunities for Electric Utility Industry• Key Barriers to Widespread Deployment of Electrolysis-Based Hydrogen Production |
| 5:00 pm | Adjourn |
| 6:00 pm | Group Dinner (No Host) |

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| 7:30 am | Continental Breakfast |
| 8:30 am | Breakout Sessions Resume <ul style="list-style-type: none">• Electricity Infrastructure Needs and Key Barriers to Widespread Deployment of Electrolysis-Based Hydrogen Production (cont'd) |
| 9:45 am | Break |
| 10:00 am | Breakout Sessions <ul style="list-style-type: none">• Enablers for Widespread Deployment of Electrolysis-Based Hydrogen Production |
| 12:00 pm | Lunch |
| 1:00 pm | Breakout Sessions <ul style="list-style-type: none">• Analysis of Top Priority Needs and Opportunities• Prepare for Summary Session |
| 2:00 pm | Plenary Session: Breakout Group Summary Reports |
| 2:40 pm | Action Items and Wrap-up |
| 3:00 pm | Adjourn |
| 3:00 - 5:00 pm | Tour NREL National Wind Technology Center and Electrolysis Test Facility |